

What is claimed is:

1. An image forming apparatus comprising a rotatable image carrier, and a charging means, an exposing means, a developing means, a transferring means and a cleaning means, which are sequentially arranged in the vicinity of the rotatable image carrier, wherein a toner remained on the surface of the rotatable image carrier is removed by the cleaning means after going through the developing means and the transferring means;

said cleaning means has an elastic blade, which is supported by a supporting member and is contacted with the surface of the image carrier at a contact pressure of not less than 8 g/cm and not more than 20 g/cm in terms of a linear pressure, and a press-contact angle of the elastic blade is not less than 12° and not more than 30° ; and

said image carrier is an organic photosensitive material comprising a conductive substrate, and a photosensitive layer made of a binder resin containing at least an electric charge generating material and an electric charge transferring material, which is formed on the conductive substrate.

2. The image forming apparatus according to claim 1, wherein the linear pressure is not less than 10 g/cm and not more than 18 g/cm.

3. The image forming apparatus according to claim 1, wherein the linear pressure is not less than 10 g/cm and not more than 18 g/cm and the press-contact angle is not less than 15° and not

more than 25° .

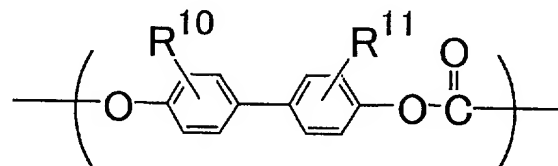
4. The image forming apparatus according to claim 1, wherein the linear pressure is not less than 10 g/cm and not more than 18 g/cm, the press-contact angle is not less than 15° and not more than 25° , and a peripheral speed of the image carrier is not less than 90 mm/sec and not more than 300 mm/sec.

5. The image forming apparatus according to claim 1, wherein the image carrier is an electrophotosensitive material comprising a conductive substrate, and a single-layer type photosensitive layer made of a binder resin containing at least an electric charge generating material, an electron transferring material and a hole transferring material, which is formed on the conductive substrate, and the solid content of the binder resin is not less than 50% by weight and not more than 70% by weight based on the whole solid content in the photosensitive layer.

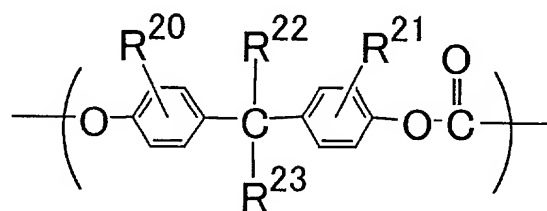
6. The image forming apparatus according to claim 5, wherein the image carrier is an electrophotosensitive material comprising a conductive substrate, and a single-layer type photosensitive layer made of a binder resin containing at least an electric charge generating material, an electron transferring material and a hole transferring material, which is formed on the conductive substrate, and the solid content of the binder resin is not less than 50% by weight and not more than 70% by weight based on the whole solid content in the photosensitive layer and, moreover, a pair of paper transporting rollers are arranged on a path for

transporting a transfer paper from a paper feeding portion to the transferring means, and a paper transporting roller at the side of the surface to be transferred among a pair of paper transporting rollers has a cleaning means for removing paper powders adsorbed on the paper transporting roller at the side of the surface to be transferred from the roller.

7. The image forming apparatus according to claim 5, wherein, in the electrophotosensitive material, the binder resin of an outermost layer in the photosensitive layer is a copolymerized polycarbonate resin having a repeating structural unit represented by the general formula [1]:



wherein R^{10} , R^{11} are the same or different and represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, and a repeating structural unit represented by the general formula [2]:

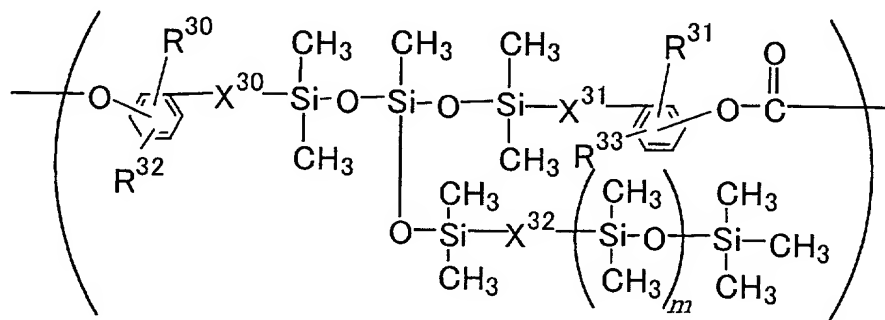


wherein R^{20} , R^{21} are the same or different and represent a hydrogen

atom, an alkyl group having 1 to 3 carbon atoms, or a phenyl group, and R^{22} and R^{23} are the same or different and represent an alkyl group having 1 to 3 carbon atoms, a phenyl group, or a cycloalkylidene group which may form a ring to have a substituent.

8. The image forming apparatus according to claim 6, wherein, in the electrophotosensitive material, the binder resin of the outermost layer in the photosensitive layer is a copolymerized polycarbonate resin having a repeating structural unit represented by the general formula [1].

9. The image forming apparatus according to claim 5, wherein, in the electrophotosensitive material, the binder resin of the outermost layer in the photosensitive layer is a copolymerized polycarbonate resin having a repeating structural unit represented by the general formula [1], a repeating structural unit represented by the general formula [2] and a repeating structural unit represented by the general formula [3]:



wherein X^{30} , X^{31} and X^{32} are the same or different and represent $-(CH_2)_n-$ (n represents an integer of 1 to 6), R^{30} , R^{31} , R^{32} and R^{33}

are the same or different and represent a hydrogen atom, a phenyl group, or an alkyl or alkoxy group having 1 to 3 carbon atoms, and m represents a numerical value of 0 to 200.

10. The image forming apparatus according to claim 6, wherein, in the electrophotosensitive material, the binder resin of the outermost layer in the photosensitive layer is a copolymerized polycarbonate resin having a repeating structural unit represented by the general formula [1], a repeating structural unit represented by the general formula [2] and a repeating structural unit represented by the general formula [3].

11. The image forming apparatus according to claim 7, wherein the content of the repeating structural unit represented by the general formula [1] in the copolymerized polycarbonate is within a range from 10 to 50 mol % based on the total amount of the binder resin of the outermost layer.

12. The image forming apparatus according to claim 8, wherein the content of the repeating structural unit represented by the general formula [1] in the copolymerized polycarbonate is within a range from 10 to 50 mol % based on the total amount of the binder resin of the outermost layer.

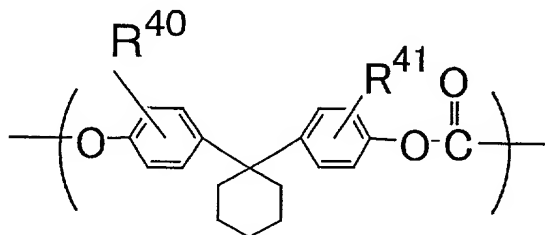
13. The image forming apparatus according to claim 9, wherein the content of the repeating structural unit represented by the general formula [1] in the copolymerized polycarbonate is within a range from 10 to 50 mol % based on the total amount of the binder resin of the outermost layer.

14. The image forming apparatus according to claim 10, wherein the content of the repeating structural unit represented by the general formula [1] in the copolymerized polycarbonate is within a range from 10 to 50 mol % based on the total amount of the binder resin of the outermost layer.

15. The image forming apparatus according to claim 7, wherein the content of the repeating structural unit represented by the general formula [3] in the copolymerized polycarbonate is within a range from 0.05 to 10 mol % based on the total amount of the binder resin of the outermost layer.

16. The image forming apparatus according to claim 9, wherein the content of the repeating structural unit represented by the general formula [3] in the copolymerized polycarbonate is within a range from 0.05 to 10 mol % based on the total amount of the binder resin of the outermost layer

17. The image forming apparatus according to claim 5, wherein, in the electrophotosensitive material as the image carrier, the binder resin of the outermost layer contains, as a main component, a polycarbonate resin having a repeating structural unit represented by the general formula [4]:



wherein R^{40} and R^{41} are the same or different and represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that R^{40} and R^{41} are not simultaneously hydrogen atoms.

18. The image forming apparatus according to claim 6, wherein, in the electrophotosensitive material as the image carrier, the binder resin of the outermost layer contains, as a main component, a polycarbonate resin having the repeating structural unit represented by the general formula [4].

19. The image forming apparatus according to claim 5, wherein the image carrier is a cylindrical drum having a single-layer type photosensitive layer and the wear resistance $[(\text{Wear amount, } \mu\text{m}) \times (\text{Drum diameter, mm})] / [(\text{Drum driving time, min}) \times (\text{Drum peripheral speed, mm/sec})]$ of the single-layer type photosensitive layer is not more than 0.0004.

20. The image forming apparatus according to claim 6, wherein the image carrier is a cylindrical drum having a single-layer type photosensitive layer and the wear resistance $[(\text{Wear amount, } \mu\text{m}) \times (\text{Drum diameter, mm})] / [(\text{Drum driving time, min}) \times (\text{Drum peripheral speed, mm/sec})]$ of the single-layer type photosensitive layer is not more than 0.0004.